



ISRAEL MILITARY INDUSTRIES LTD. (I.M.I.)
Ammunition Group

120-MM CARGO MORTAR BOMBS - COMPLYING WITH THE MODERN BATTLEFIELD NEEDS

Presented by Ltc. (Ret.) Motti Eis

April 2001



Combat Scenarios

- **Dismounted Infantry formations.**
- **APCs.**
- **Trenched posts.**
- **AT Squads.**
- **Mortar Squads.**
- **Small Infantry Squads.**
- **C³ Vehicles.**
- **Truck convoys.**
- **Bridge Head in coasting operations.**



Limitations of the current situation

The indirect artillery (155mm layout)

- **Late response.**
- **Target registration process.**

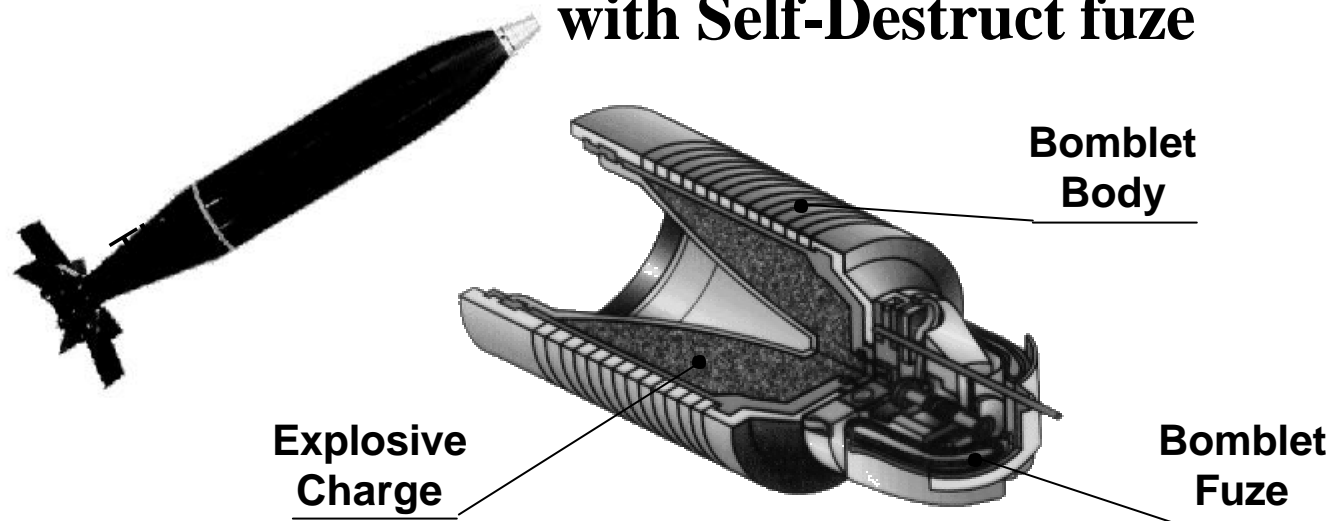
The autonomous Mortar Carriers

- **Limited stowage.**
- **HE bombs.**



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Dual-Purpose bomblet M87 with Self-Destruct fuze



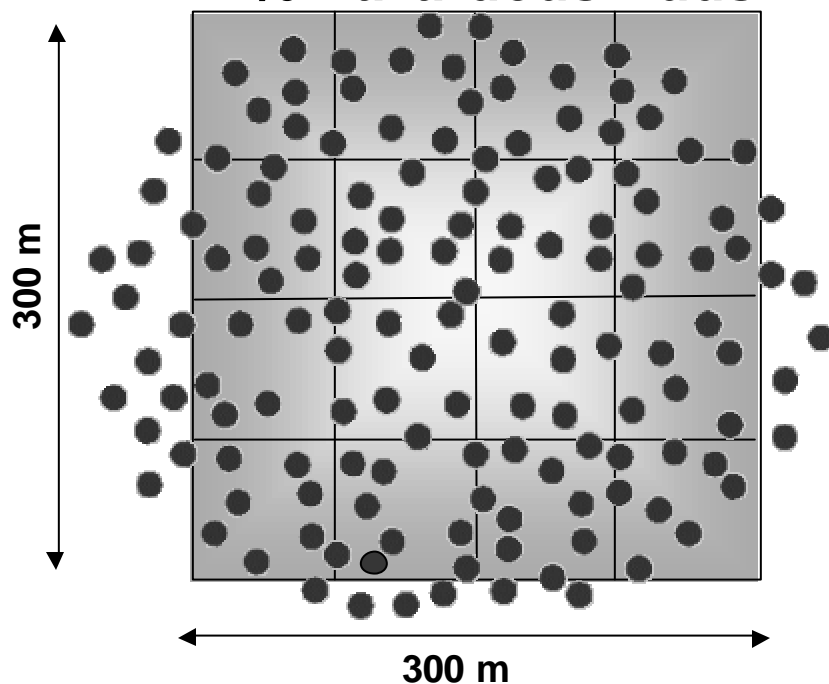
AVERAGE PENETRATION IN RHA STEEL	105 mm
BOMBLET LETHAL RADIUS AGAINST STANDING TROOPS	9 m
BOMBLET HE FILLER	44 g RDX Comp.



Bomblet with no SD

**Hazardous Duds After
Firing 10,000 Bomblets**

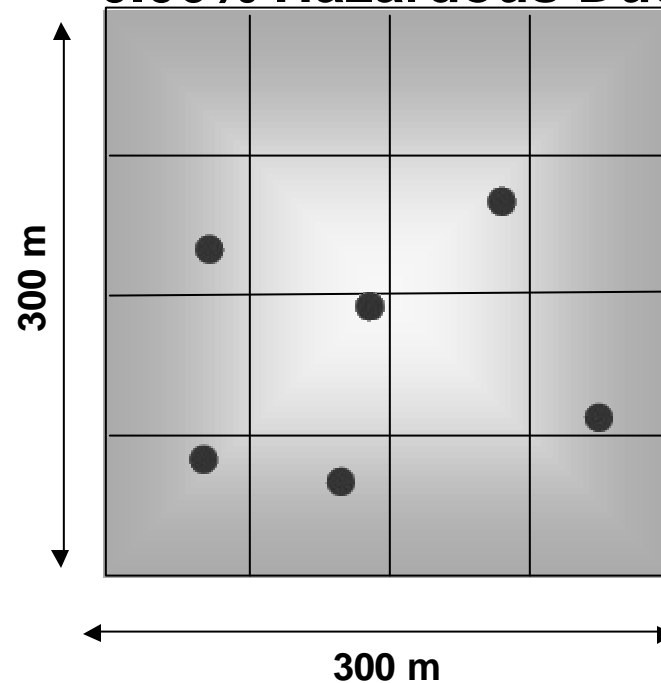
2% Hazardous Duds



M87 bomblet

**Hazardous Duds After
Firing 10,000 Bomblets**

0.06% Hazardous Duds

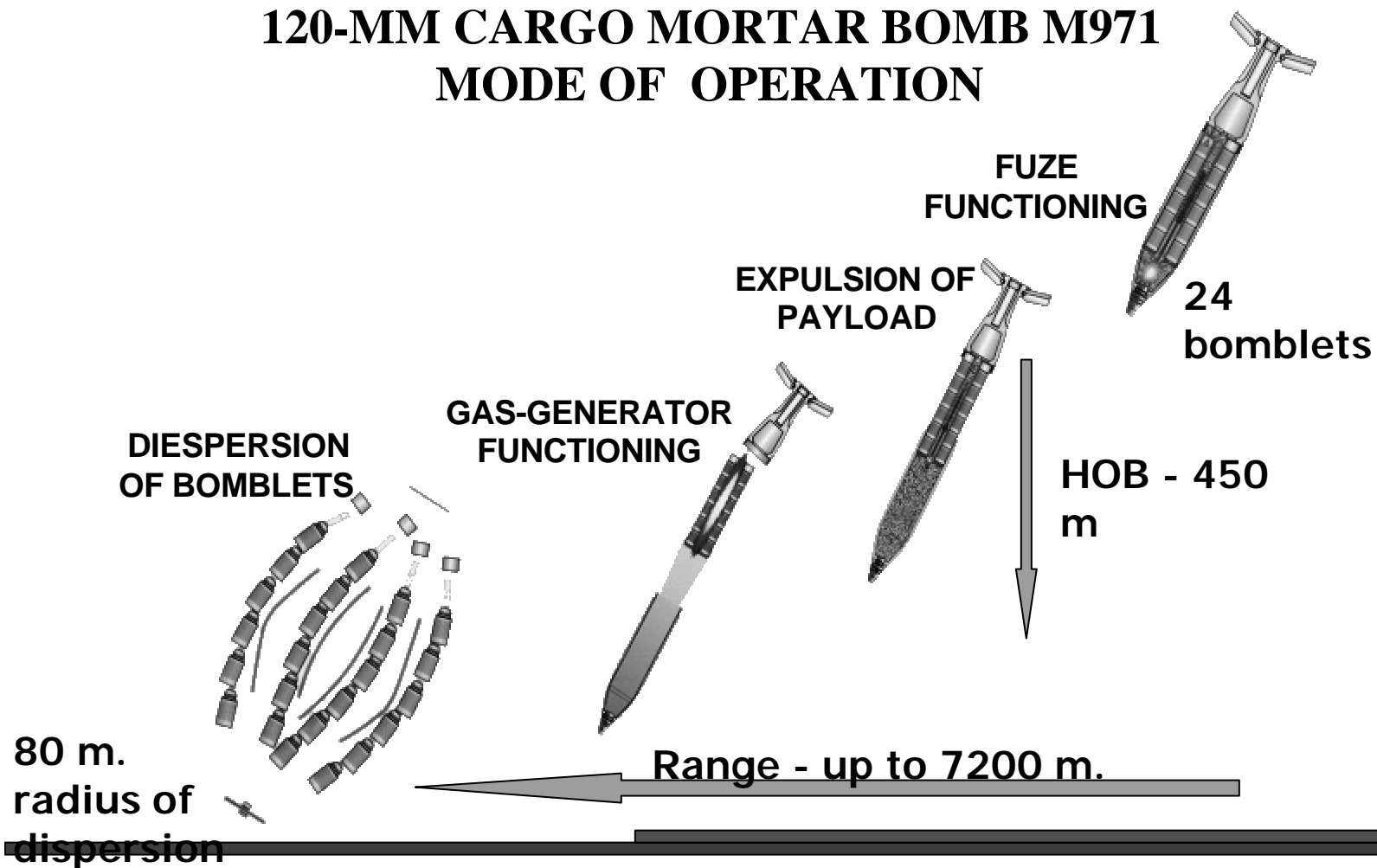




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120-MM CARGO MORTAR BOMB M971

MODE OF OPERATION

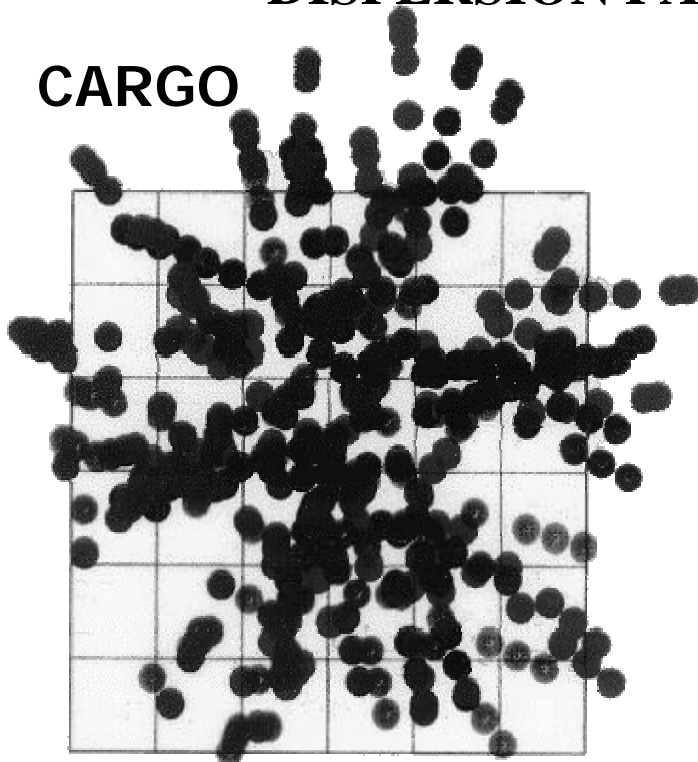




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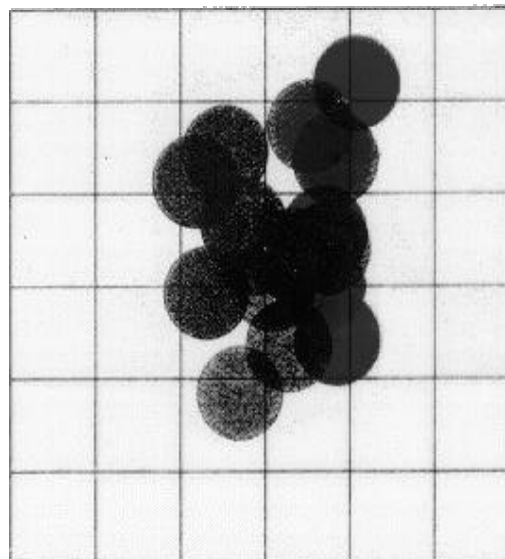
DISPERSION PATTERN of 4X4 VOLLEYS

CARGO

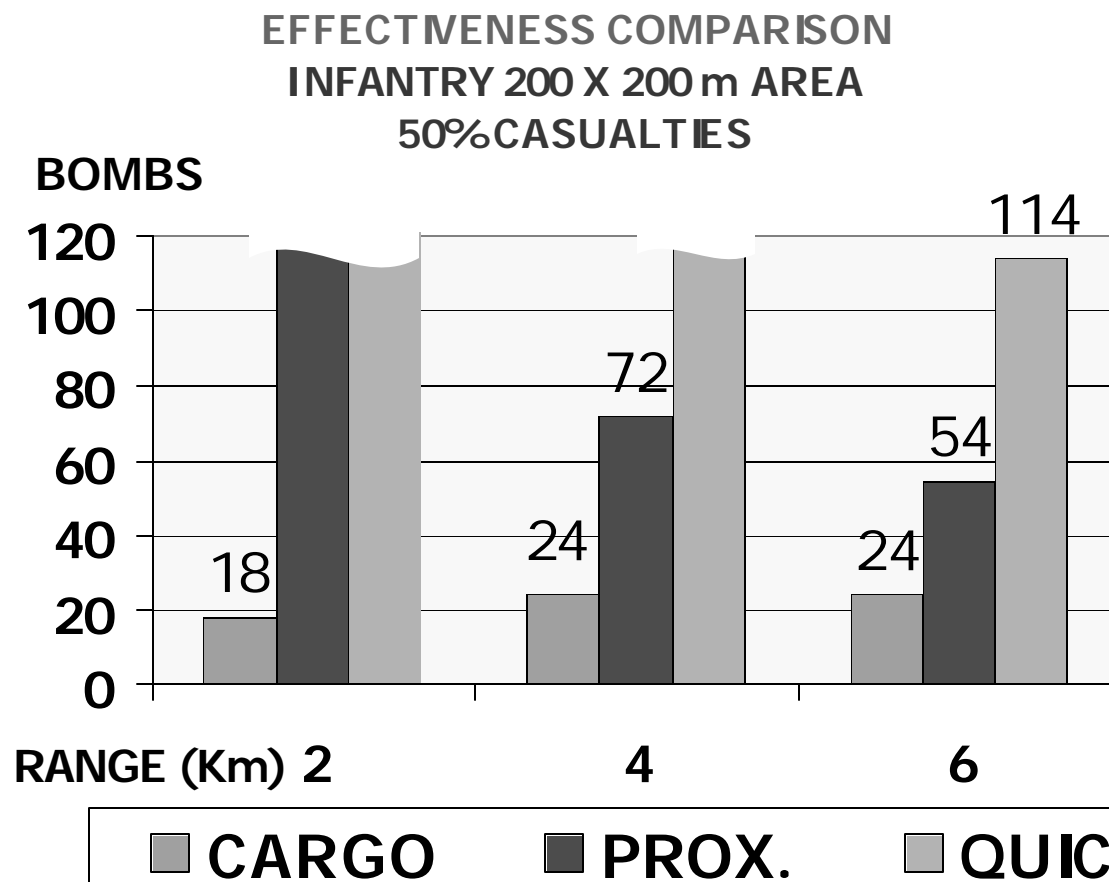


Dispersion (std dev): W = 37 m L = 37 m
Target = 300x300 m
Range = 5800 m

HE

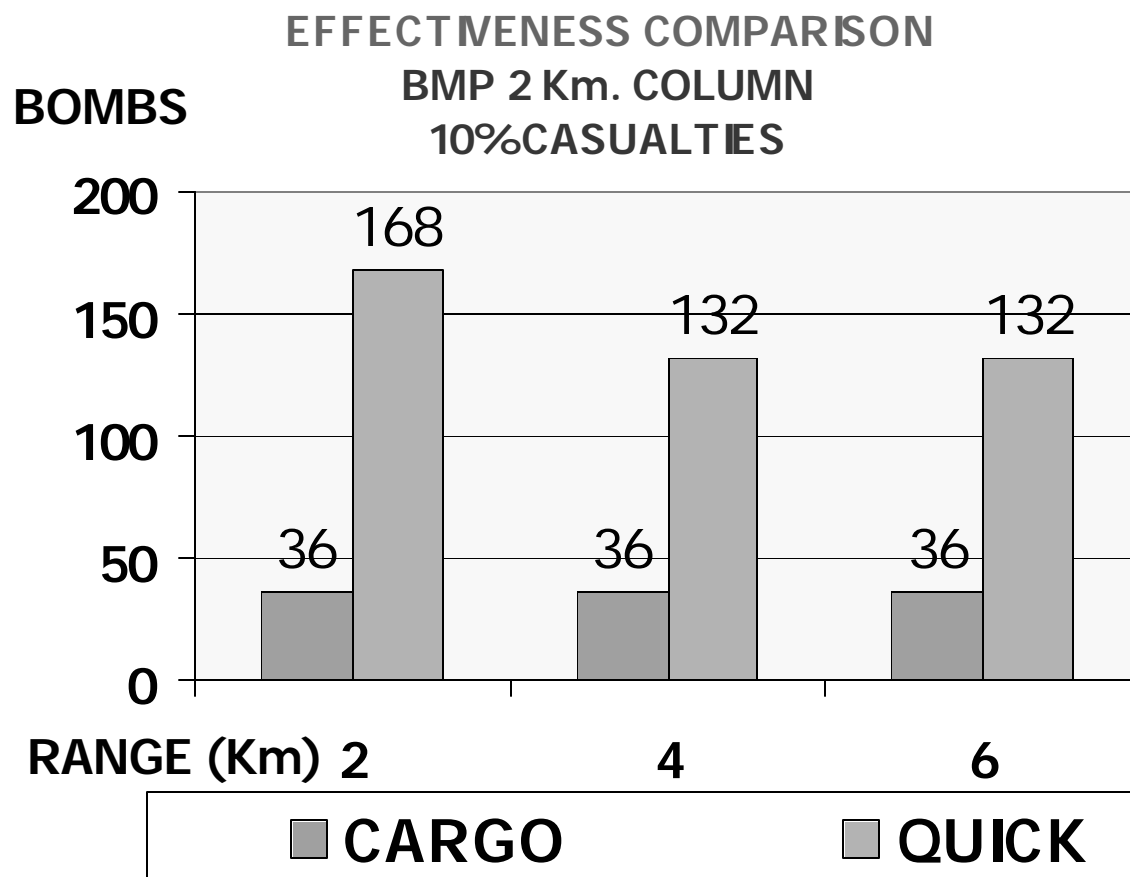


Dispersion (std dev): W = 37 m L = 37 m
Target = 300x300 m
Range = 5800 m





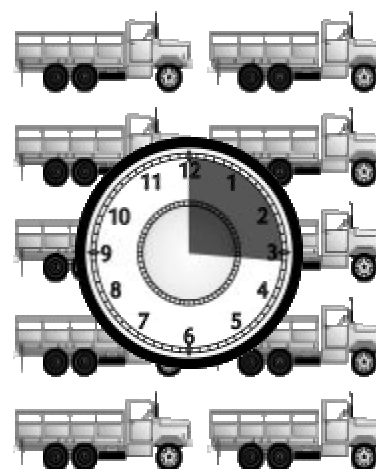
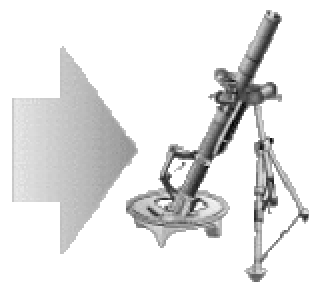
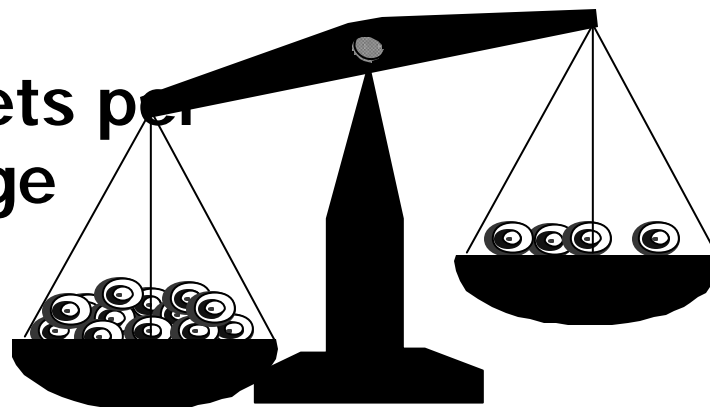
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ADVANTAGES USING 120-MM CARGO MORTAR BOMBS

More targets per
MC stowage





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The End